

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
6 May 2005 (06.05.2005)

PCT

(10) International Publication Number
WO 2005/041145 A1

(51) International Patent Classification⁷: G08B 25/01, 21/14, 21/16

(74) Agent: CLARKSON, Paul; Howrey Simon Arnold & White, Rembrandtoren, 31st Floor, One Amstelplein, NL-1096 HA Amsterdam (NL).

(21) International Application Number:

PCT/EP2003/011089

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date: 7 October 2003 (07.10.2003)

(25) Filing Language: English

(26) Publication Language: English

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (for all designated States except US): Z-MONITORING BVBA [BE/BE]; Industriegebied Teutelberg, Meerkenstraat 61, B-3650 Dilsen-Stokkem (BE).

(72) Inventors; and

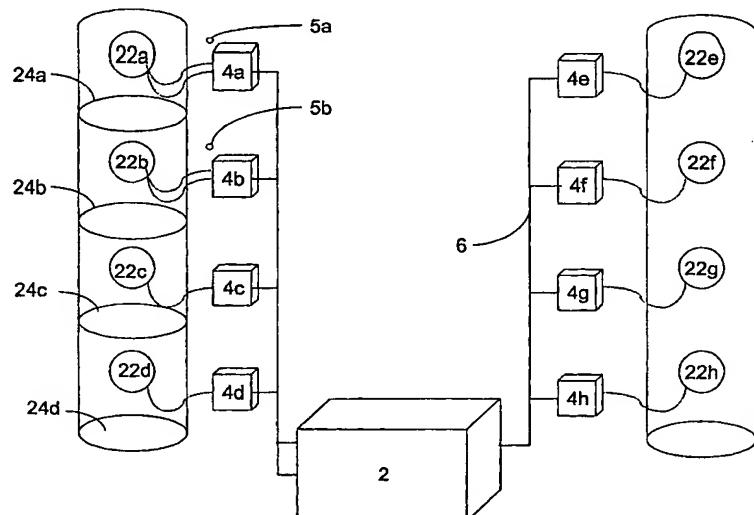
(75) Inventors/Applicants (for US only): ZADNIKAR, Matheus [BE/BE]; Industriegebied Teutelberg, Meerkenstraat 61, B-3650 Dilsen-Stokkem (BE). VANDERHENST, Rudi [BE/BE]; Burgemeester Van Lindtstraat 5 bus 13, B-3900 Overpelt (BE).

Published:

— with international search report

[Continued on next page]

(54) Title: SAFETY MONITORING SYSTEM



(57) Abstract: A method is disclosed for monitoring personnel operating at a workplace within a confined space. The method involves providing a mobile workplace module comprising a video registration device producing video data, an audio interface for emitting and receiving audio data and a gas sensor to produce gas sensor data. The workplace module is mounted at least partially within the confined space and a mobile monitoring unit comprising a display for displaying video data from the workplace module, an audio interface for emitting and receiving audio data and a gas data receiver for receiving gas sensor data is located outside the confined space. The workplace module and the monitoring unit are connected by a mobile umbilical cable for data transmission so that personnel at the workplace may easily be monitored from the monitoring unit. Apparatus for carrying out the method is also disclosed including a mobile monitoring system, a workplace module, a video camera mount, an extractive gas detector and a computer system.

WO 2005/041145 A1



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.